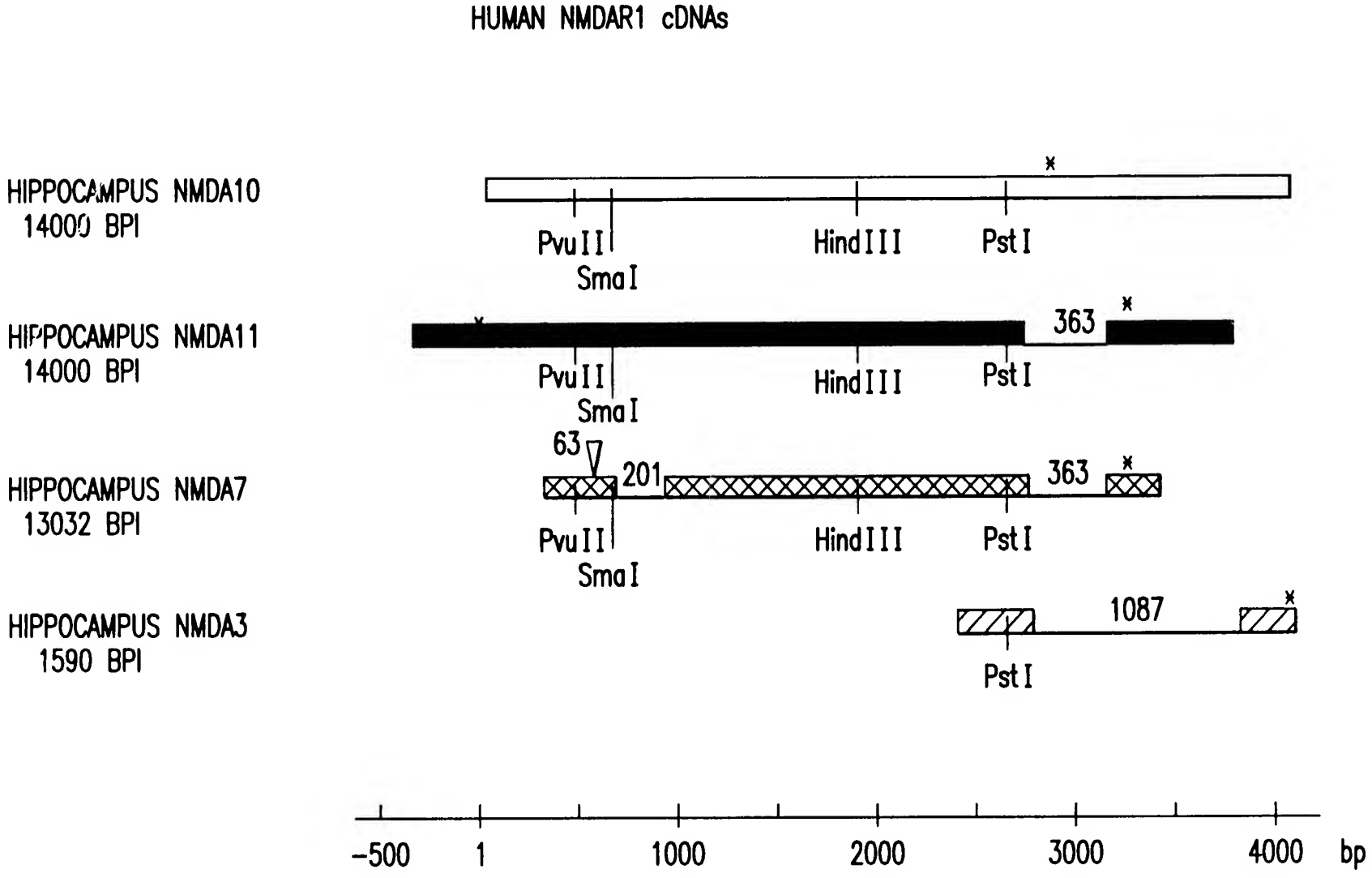
HUMAN NMDAR1 cDNAs
HIPPOCAMPUS NMDA10
14000 BPI
PvuII
SmaI
HindIII
PstI
HIPPOCAMPUS NMDA11
14000 BPI
363
PvuII
SmaI
HindIII
PstI
HIPPOCAMPUS NMDA7
13032 BPI
63
201
363
PvuII
SmaI
HindIII
PstI
HIPPOCAMPUS NMDA3
1590 BPI
1087
PstI
-500
1
1000
2000
3000
4000
bp

FIG.1

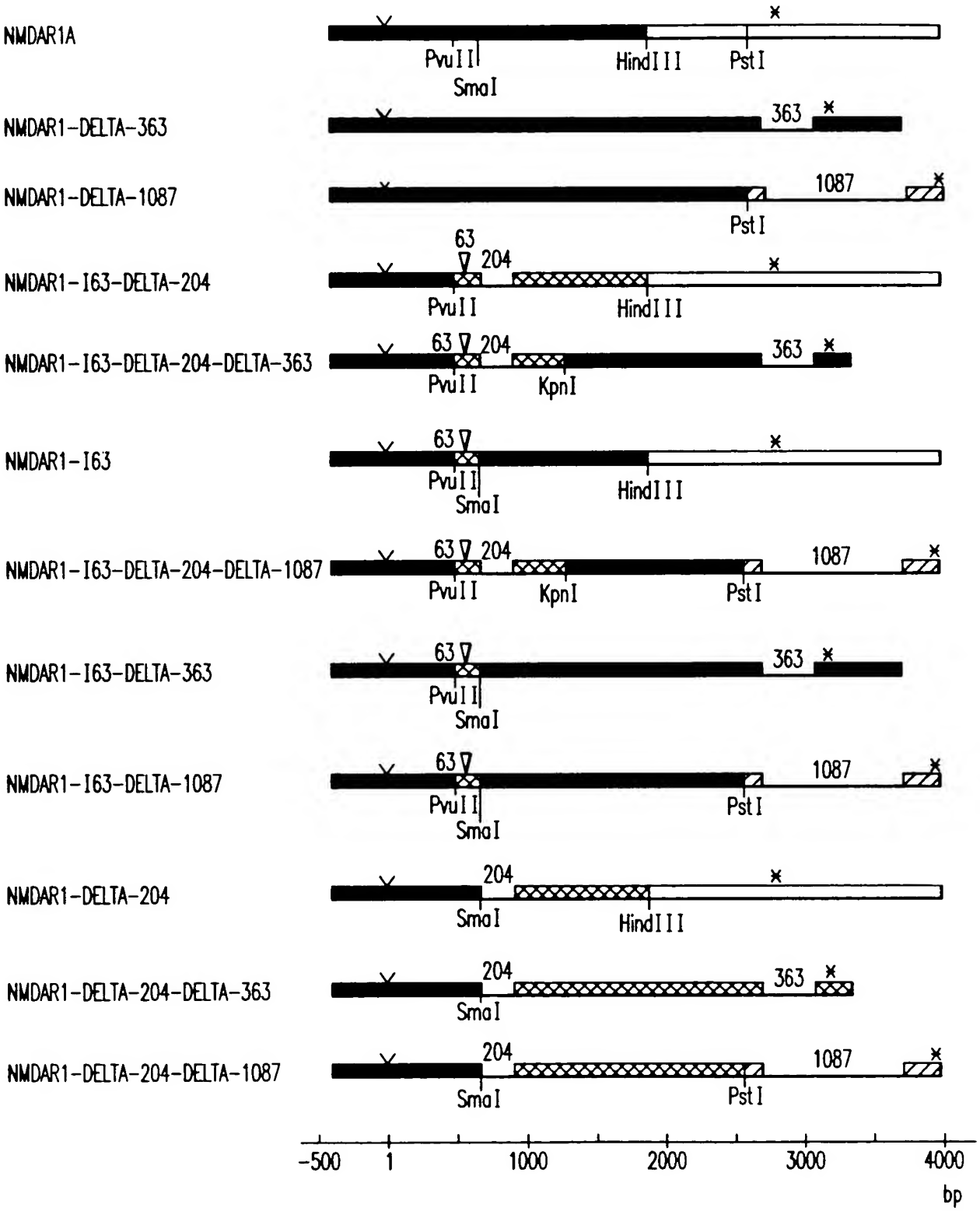
HUMAN NMDAR1A CONSTRUCTS
NMDAR1A
PvuII
SmaI
HindIII
PstI
NMDAR1-DELTA-363
363
NMDAR1-DELTA-1087
1087
PstI
NMDAR1-I63-DELTA-204
63
204
PvuII
HindIII
NMDAR1-I63-DELTA-204-DELTA-363
KpnI
NMDAR1-I63
NMDAR1-I63-DELTA-204-DELTA-1087
NMDAR1-I63-DELTA-363
NMDAR1-I63-DELTA-1087
NMDAR1-DELTA-204
NMDAR1-DELTA-204-DELTA-363
NMDAR1-DELTA-204-DELTA-1087
-500
1
1000
2000
3000
4000
bp

FIG.2

NUCLEOTIDE SEQUENCE OF THE HUMAN NMDARIA RECEPTOR

```
   1 ccagccgggc gttcggagct gtgcccggcc ccgcttcagc accgcggaca gcgccggccg cgtggggctg agcgccgagc cccgcgcac  gcttcagccc
 101 cccttccctc ggccgacgtc ccgggaccgc cgctccgggg gagacgtggc gtccgcagcc cgcggggccg ggcgagcgca ggacggcccg gaagccccgc
                                                                   - START
 201 gggggatgcg ccgagggccc cgcgttcgcg ccgcgcagag ccaggcccgc ggcccgagcc cATGAGCACC ATGCGCCTGC TGACGCTCGC CCTGCTGTTC
 301 TCCTGCTCCG TCGCCCGTGC CGCGTGCGAC CCCAAGATCG TCAACATTGG CGCGGTGCTG AGCACGCGGA AGCACGAGCA GATGTTCCGC GAGGCCGTGA
 401 ACCAGGCCAA CAAGCGGCAC GGCTCCTGGA AGATTCAGCT CAATGCCACC TCCGTCACGC ACAAGCCCAA CGCCATCCGG ATGGCTCTGT CGGTGTGCGA
 501 GGACCTCATC TCCAGCCAGG TCTACGCCAT CCTAGTTAGC CATCCACCTA CCCCCAACGA CCACTTCACT CCCACCCCTG TCTCCTACAC AGCCGGCTTC
 601 TACCGCATAC CCGTGCTGGG GCTGACCACC CGCATGTCCA TCTACTCGGA CAAGAGCATC CACCTGAGCT TCCTGCGCAC CGTGCCGCCC TACTCCCACC
                                          Pvu II
 701 AGTCCAGCGT GTGGTTTGAG ATGATCCGTG TCTACAGCTG GAACCACATC ATCCTGCTGG TCAGCGACGA CCACGAGGGC CGGGCGGCTC AGAAACGCCT
                                          63 bp INSERT
 801 GGAGACGCTG CTGGAGGAGC GTGAGTCCAA GGCAGAGAAG GTGCTGCAGT TTGACCCAGG GACCAAGAAC GTGACGGCCC TGCTGATGGA GGCGAAAGAG
          Sma I
 901 CTGGAGGCCC GGGTCATCAT CCTTTCTGCC AGCGAGGACG ATGCTGCCAC TGTATACCGC GCAGCCGCGA TGCTGAACAT GACGGGCTCC GGGTACGTGT
                              BglII                                                                             204 bp DELETION
1001 GGCTGGTCGG CGAGCGCGAG ATCTCGGGGA ACGCCCTGCG CTACGCCCCA GACGGCATCC TCGGGCTGCA GCTCATCAAC GGCAAGAACG AGTCGGCCCA
1101 CATCAGCGAC GCCGTGGGCG TGGTGGCCCA GGCCGTGCAC GAGCTCCTCG AGAAGGAGAA CATCACCGAC CCGCCGCGGG GCTGCGTGGG CAACACCAAC
1201 ATCTGGAAGA CCGGGCCGCT CTTCAAGAGA GTGCTGATGT CTTCCAAGTA TGCGGATGGG GTGACTGGTC GCGTGGAGTT CAATGAGGAT GGGGACCGGA
1301 AGTTCGCCAA CTACAGCATC ATGAACCTGC AGAACCGCAA GCTGGTGCAA GTGGGCATCT ACAATGGCAC CCACGTCATC CCTAATGACA GGAAGATCAT
                                           Kpn I
1401 CTGGCCAGGC GGAGAGACAG AGAAGCCTCG AGGGTACCAG ATGTCCACCA GACTGAAGAT TGTGACGATC CACCAGGAGC CCTTCGTGTA CGTCAAGCCC
1501 ACGCTGAGTG ATGGGACATG CAAGGAGGAG TTCACAGTCA ACGGCGACCC AGTCAAGAAG GTGATCTGCA CCGGGCCCAA CGACACGTCG CCGGGCAGCC
1601 CCCGCCACAC GGTGCCTCAG TGTTGCTACG GCTTTTGCAT CGACCTGCTC ATCAAGCTGG CACGGACCAT GAACTTCACC TACGAGGTGC ACCTGGTGGC
1701 AGATGGCAAG TTCGGCACAC AGGAGCGGGT GAACAACAGC AACAAGAAGG AGTGGAATGG GATGATGGGC GAGCTGCTCA GCGGGCAGGC AGACATGATC
1801 GTGGCGCCGC TAACCATAAA CAACGAGCGC GCGCAGTACA TCGAGTTTTC CAAGCCCTTC AAGTACCAGG GCCTGACTAT TCTGGTCAAG AAGGAGATTC
1901 CCCGGAGCAC GCTGGACTCG TTCATGCAGC CGTTCCAGAG CACACTGTGG CTGCTGGTGG GGCTGTCGGT GCACGTGGTG GCCGTGATGC TGTACCTGCT
2001 GGACCGCTTC AGCCCCTTCG GCCGGTTCAA GGTGAACAGC GAGGAGGAGG AGGAGGACGC ACTGACCCTG TCCTCGGCCA TGTGGTTCTC CTGGGGCGTC
```

FIG.3A

FIG.3B

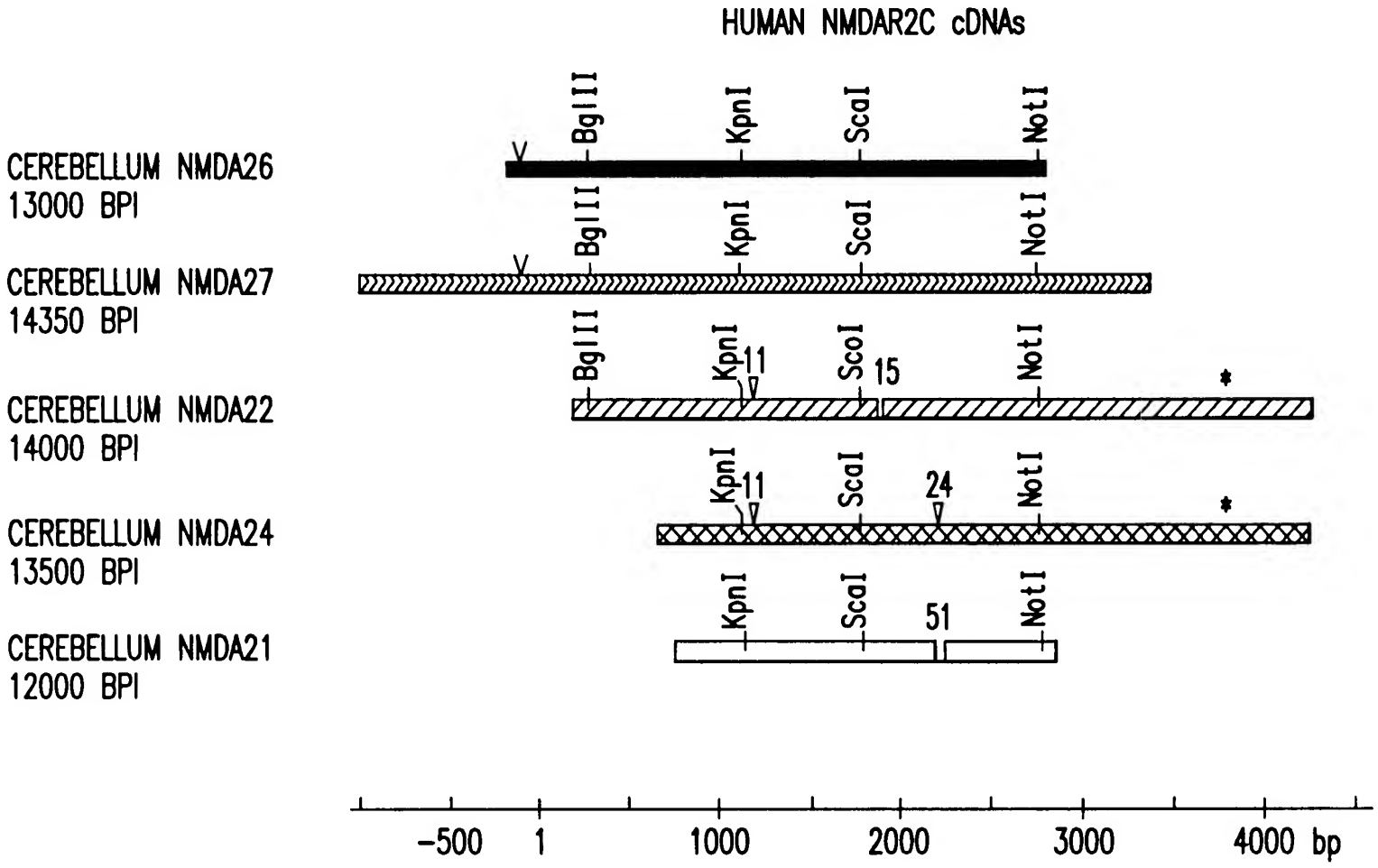
HUMAN NMDAR2C cDNAs
CEREBELLUM NMDA26
13000 BPI
CEREBELLUM NMDA27
14350 BPI
CEREBELLUM NMDA22
14000 BPI
CEREBELLUM NMDA24
13500 BPI
CEREBELLUM NMDA21
12000 BPI
BglII
KpnI
ScaI
NotI
11
15
24
51
-500
1
1000
2000
3000
4000 bp

FIG.4

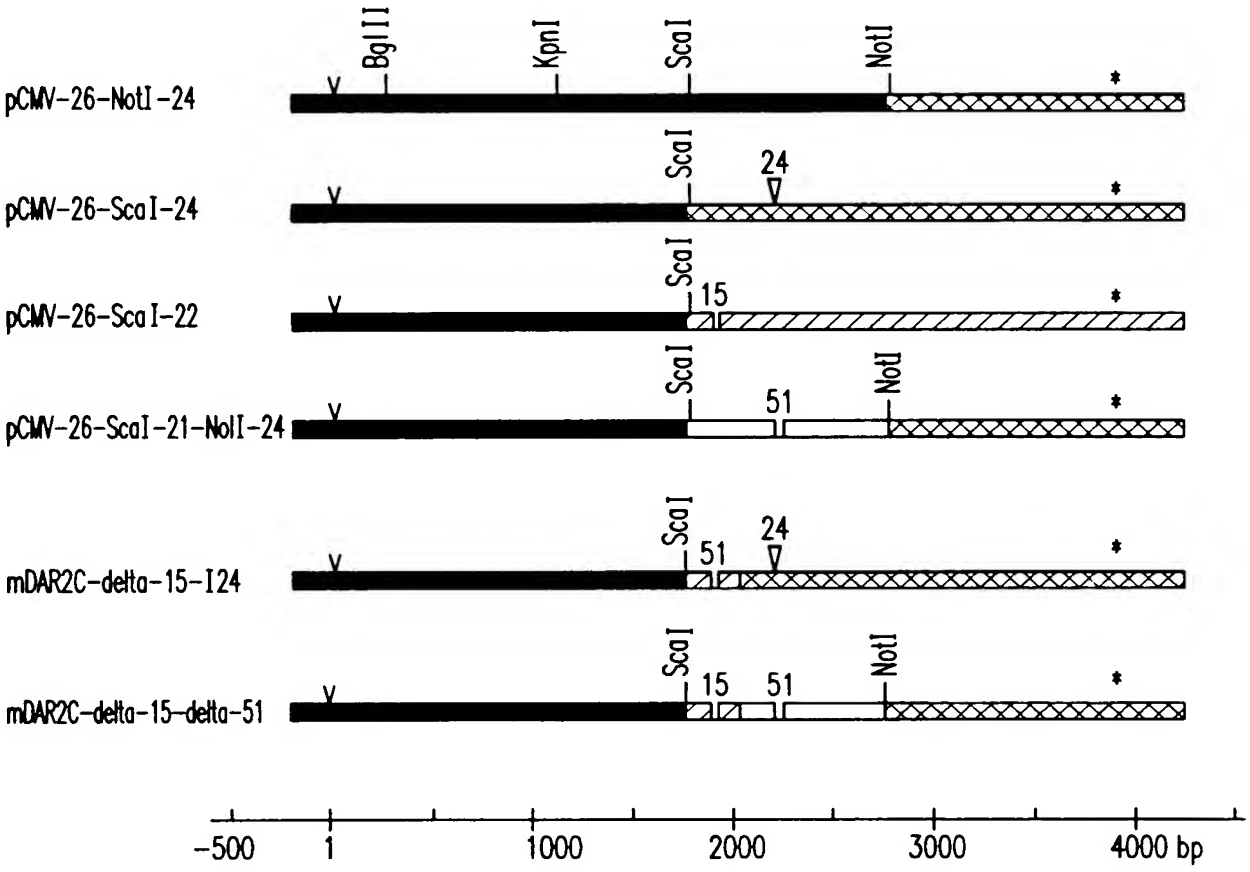
CONSTRUCTION OF THE FULL-LENGTH HUMAN NMDAR2C cDNAs
BglII
KpnI
ScaI
NotI
pCMV-26-NotI-24
ScaI
24
pCMV-26-ScaI-24
ScaI
15
pCMV-26-ScaI-22
ScaI
51
NotI
pCMV-26-ScaI-21-NolI-24
ScaI
51
24
mDAR2C-delta-15-I24
ScaI
15
51
NotI
mDAR2C-delta-15-delta-51
-500
1
1000
2000
3000
4000 bp

FIG.5

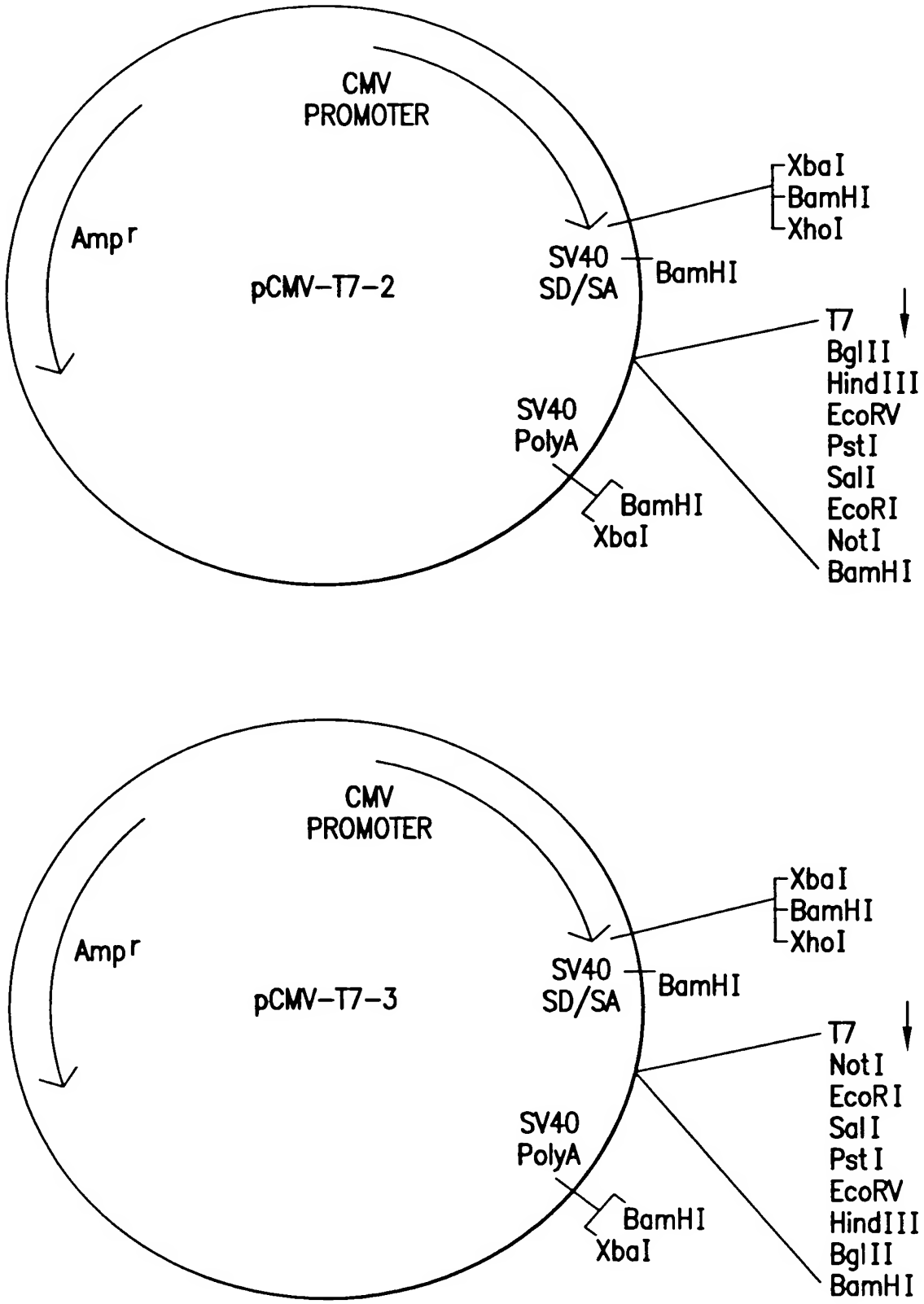
CMV
PROMOTER
Amp r
pCMV-T7-2
SV40
SD/SA
XbaI
BamHI
XhoI
BamHI
T7
BglII
HindIII
EcoRV
PstI
SalI
EcoRI
NotI
BamHI
SV40
PolyA
BamHI
XbaI
CMV
PROMOTER
Amp r
pCMV-T7-3
SV40
SD/SA
XbaI
BamHI
XhoI
BamHI
T7
NotI
EcoRI
SalI
PstI
EcoRV
HindIII
BglII
BamHI
SV40
PolyA
BamHI
XbaI

FIG.6